

Chris Develder

List of Publications by Year in descending order

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156
papers

4,065
citations

201674

27
h-index

182427

51
g-index

160
all docs

160
docs citations

160
times ranked

2960
citing authors

#	ARTICLE	IF	CITATIONS
1	Satellite based fault diagnosis of photovoltaic systems using recurrent neural networks. Applied Energy, 2022, 305, 117874.	10.1	29
2	Physics informed neural networks for control oriented thermal modeling of buildings. Applied Energy, 2022, 314, 118852.	10.1	39
3	Solving arithmetic word problems by scoring equations with recursive neural networks. Expert Systems With Applications, 2021, 174, 114704.	7.6	11
4	DWIE: An entity-centric dataset for multi-task document-level information extraction. Information Processing and Management, 2021, 58, 102563.	8.6	19
5	Exploration of block-wise dynamic sparseness. Pattern Recognition Letters, 2021, 151, 187-192.	4.2	0
6	Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. IEEE Transactions on Smart Grid, 2020, 11, 203-214.	9.0	74
7	Synthetic Data Generator for Electric Vehicle Charging Sessions: Modeling and Evaluation Using Real-World Data. Energies, 2020, 13, 4211.	3.1	26
8	Peak Shaving through Battery Storage for Low-Voltage Enterprises with Peak Demand Pricing. Energies, 2020, 13, 1183.	3.1	11
9	A voltage and current measurement dataset for plug load appliance identification in households. Scientific Data, 2020, 7, 49.	5.3	50
10	Defining a synthetic data generator for realistic electric vehicle charging sessions. , 2020, , .		6
11	Detection of unidentified appliances in non-intrusive load monitoring using siamese neural networks. International Journal of Electrical Power and Energy Systems, 2019, 104, 645-653.	5.5	83
12	Bayesian cylindrical data modeling using Abeâ€™Ley mixtures. Applied Mathematical Modelling, 2019, 68, 629-642.	4.2	4
13	Investigating the need for real time measurements in industrial wind power systems combined with battery storage. Applied Energy, 2019, 247, 559-571.	10.1	6
14	Feasibility of 100% renewable energy-based electricity production for cities with storage and flexibility. Renewable Energy, 2019, 134, 698-709.	8.9	69
15	Reduced state space and cost function in reinforcement learning for demand response control of multiple EV charging stations. , 2019, , .		7
16	An attentive neural architecture for joint segmentation and parsing and its application to real estate ads. Expert Systems With Applications, 2018, 102, 100-112.	7.6	23
17	Creation and evaluation of large keyphrase extraction collections with multiple opinions. Language Resources and Evaluation, 2018, 52, 503-532.	2.7	7
18	Appliance classification using VI trajectories and convolutional neural networks. Energy and Buildings, 2018, 158, 32-36.	6.7	160

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19	Quantitive analysis of electric vehicle flexibility: A data-driven approach. International Journal of Electrical Power and Energy Systems, 2018, 95, 451-462.	5.5	131
20	Modeling Real-World Flexibility of Residential Power Consumption. , 2018, , .		1
21	Achieving Scalable Model-Free Demand Response in Charging an Electric Vehicle Fleet with Reinforcement Learning. , 2018, , .		6
22	Design and Experimental Validation of an LTE-Based Synchrophasor Network in a Medium Voltage Distribution Grid. , 2018, , .		2
23	Joint entity recognition and relation extraction as a multi-head selection problem. Expert Systems With Applications, 2018, 114, 34-45.	7.6	276
24	Improving the utilization factor of a PEM electrolyzer powered by a 15ÂMW PV park by combining wind power and battery storage â€œ Feasibility study. International Journal of Hydrogen Energy, 2018, 43, 16468-16478.	7.1	46
25	VI-Based Appliance Classification Using Aggregated Power Consumption Data. , 2018, , .		22
26	Adversarial training for multi-context joint entity and relation extraction. , 2018, , .		108
27	Energy-Efficient dynamic virtual network traffic engineering for north-south traffic in multi-location data center networks. Computer Networks, 2017, 125, 90-102.	5.1	15
28	Exploring the Benefit of Rerouting Multi-Period Traffic to Multi-Site Data Centers [Invited]. Journal of Optical Communications and Networking, 2017, 9, C25.	4.8	0
29	On the Bayesian optimization and robustness of event detection methods in NILM. Energy and Buildings, 2017, 145, 57-66.	6.7	56
30	Optimized statistical test for event detection in non-intrusive load monitoring. , 2017, , .		5
31	Comprehensive feature selection for appliance classification in NILM. Energy and Buildings, 2017, 151, 98-106.	6.7	132
32	Handling imbalance in an extended PLAID. , 2017, , .		21
33	Automated classification of appliances using elliptical fourier descriptors. , 2017, , .		15
34	Reconstructing the house from the ad: Structured prediction on real estate classifieds. , 2017, , .		8
35	Energy flexibility assessment of an industrial coldstore process. , 2016, , .		0
36	Quantifying flexibility in EV charging as DR potential: Analysis of two real-world data sets. , 2016, , .		44

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37	Dynamic Virtual Network Traffic Engineering with Energy Efficiency in Multi-location Data Center Networks. , 2016, , .		10
38	Modeling and analysis of residential flexibility: Timing of white good usage. Applied Energy, 2016, 179, 790-805.	10.1	30
39	Anycast (re)routing of multi-period traffic in dimensioning resilient backbone networks for multi-site data centers. , 2016, , .		1
40	Using topology information for quality-aware Peer-to-Peer multilayer video streaming. International Journal of Communication Systems, 2016, 29, 1620-1644.	2.5	1
41	Knowledge base population using semantic label propagation. Knowledge-Based Systems, 2016, 108, 79-91.	7.1	7
42	Predicting relevance based on assessor disagreement: analysis and practical applications for search evaluation. Information Retrieval, 2016, 19, 284-312.	2.0	7
43	Charging Electric Vehicles in the Smart Grid. Power Systems, 2016, , 147-161.	0.5	0
44	A Survey on Resiliency Techniques in Cloud Computing Infrastructures and Applications. IEEE Communications Surveys and Tutorials, 2016, 18, 2244-2281.	39.4	110
45	Two-Stage Load Pattern Clustering Using Fast Wavelet Transformation. IEEE Transactions on Smart Grid, 2016, 7, 2250-2259.	9.0	65
46	Remote Management of a Large Set of Heterogeneous Devices Using Existing IoT Interoperability Platforms. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 450-461.	0.3	3
47	Real-world user flexibility of energy consumption. , 2016, , .		4
48	Supervised Keyphrase Extraction as Positive Unlabeled Learning. , 2016, , .		30
49	Resilient backbone networks for multi-site data centers: Exploiting anycast (re)routing for multi-period traffic. , 2016, , .		0
50	On the robustness of event detection evaluation. , 2015, , .		0
51	Dimensioning backbone networks for multi-site data centers: Exploiting anycast routing for resilience. , 2015, , .		3
52	Entity Linking. , 2015, , .		0
53	An Information-Centric Communication Infrastructure for Real-Time State Estimation of Active Distribution Networks. IEEE Transactions on Smart Grid, 2015, 6, 2134-2146.	9.0	61
54	A scalable model for multi-period virtual network mapping for resilient multi-site data centers. , 2015, , .		2

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55	Supporting development and management of smart office applications: A DYAMAND case study. , 2015, , .		3
56	When Topic Models Disagree. , 2015, , .		2
57	Topical Word Importance for Fast Keyphrase Extraction. , 2015, , .		40
58	Deploying the ICT architecture of a residential demand response pilot. , 2015, , .		3
59	Enabling Smart Grid Applications with ICN. , 2015, , .		8
60	Ranking Deep Web Text Collections for Scalable Information Extraction. , 2015, , .		1
61	Platform for real-time subjective assessment of interactive multimedia applications. Multimedia Tools and Applications, 2014, 72, 749.	3.9	2
62	OMUS: an optimized multimedia service for the home environment. Multimedia Tools and Applications, 2014, 72, 281.	3.9	5
63	Economic evaluation of active network management alternatives for congestion avoidance — the DSO perspective. , 2014, , .		4
64	Resilience options for provisioning anycast cloud services with virtual optical networks. , 2014, , .		5
65	Large-scale residential demand response ICT architecture. , 2014, , .		6
66	Exploiting user disagreement for web search evaluation. , 2014, , .		7
67	Joint Dimensioning of Server and Network Infrastructure for Resilient Optical Grids/Clouds. IEEE/ACM Transactions on Networking, 2014, 22, 1591-1606.	3.8	39
68	NCP+: An integrated network and IT control plane for cloud computing. Optical Switching and Networking, 2014, 11, 137-152.	2.0	5
69	The GEYSERS optical testbed: A platform for the integration, validation and demonstration of cloud-based infrastructure services. Computer Networks, 2014, 61, 197-216.	5.1	5
70	Combining Power and Communication Network Simulation for Cost-Effective Smart Grid Analysis. IEEE Communications Surveys and Tutorials, 2014, 16, 1771-1796.	39.4	187
71	Exploiting road traffic data for Very short term load forecasting in Smart Grids. , 2014, , .		4
72	Time-varying resilient virtual network mapping for multi-location cloud data centers. , 2014, , .		8

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73	Editorial: IEEE Communications Surveys & Tutorials - Special Section on Energy and Smart Grid. IEEE Communications Surveys and Tutorials, 2014, 16, 1687-1688.	39.4	2
74	Assessing Quality of Unsupervised Topics in Song Lyrics. Lecture Notes in Computer Science, 2014, , 547-552.	1.3	1
75	Energy-Efficient Resource-Provisioning Algorithms for Optical Clouds. Journal of Optical Communications and Networking, 2013, 5, 226.	4.8	35
76	Anycast end-to-end resilience for cloud services over virtual optical networks. , 2013, , .		4
77	Snippet-Based Relevance Predictions for Federated Web Search. Lecture Notes in Computer Science, 2013, , 697-700.	1.3	4
78	Design and evaluation of an architecture for future smart grid service provisioning. , 2012, , .		2
79	Infrastructure for collaborating data-researchers in a Smart Grid pilot. , 2012, , .		1
80	DYAMAND: DYnamic, AdAptive MAnagement of Networks and Devices. , 2012, , .		13
81	Isolation and resource efficiency of virtual optical networks. , 2012, , .		5
82	Resilient network dimensioning for optical grid/clouds using relocation. , 2012, , .		19
83	Comparison of intelligent charging algorithms for electric vehicles to reduce peak load and demand variability in a distribution grid. Journal of Communications and Networks, 2012, 14, 672-681.	2.6	45
84	Distributed smart charging of electric vehicles for balancing wind energy. , 2012, , .		24
85	Converged IT and optical network virtualisation: The last (clean-)step towards the Future Internet infrastructure management. , 2012, , .		0
86	Automatic fine-grained area detection for thin client systems. Journal of Network and Computer Applications, 2012, 35, 1620-1632.	9.1	5
87	Selecting the best locations for data centers in resilient optical grid/cloud dimensioning. , 2012, , .		14
88	Distributed multi-agent algorithm for residential energy management in smart grids. , 2012, , .		17
89	Optical Networks for Grid and Cloud Computing Applications. Proceedings of the IEEE, 2012, 100, 1149-1167.	21.3	141
90	Delivering scalable video with QoS to the home. Telecommunication Systems, 2012, 49, 129-148.	2.5	22

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91	What Snippets Say about Pages in Federated Web Search. Lecture Notes in Computer Science, 2012, , 250-261.	1.3	5
92	Topic 13: High Performance Network and Communication. Lecture Notes in Computer Science, 2012, , 700-700.	1.3	0
93	Design and implementation of a simulation environment for network virtualization. , 2011, , .		1
94	Evaluation of Multiple Design Options for Smart Charging Algorithms. , 2011, , .		10
95	Calculating the Minimum Bounds of Energy Consumption for Cloud Networks. , 2011, , .		11
96	Assessment and mitigation of voltage violations by solar panels in a residential distribution grid. , 2011, , .		20
97	Integrated simulation of power and communication networks for smart grid applications. , 2011, , .		64
98	Energy Efficiency in integrated IT and optical network infrastructures: The GEYSERS approach. , 2011, , .		34
99	Improving energy efficiency in optical cloud networks by exploiting anycast routing. Proceedings of SPIE, 2011, , .	0.8	15
100	Anycast Routing for Survivable Optical Grids: Scalable Solution Methods and the Impact of Relocation. Journal of Optical Communications and Networking, 2011, 3, 767.	4.8	34
101	Exploiting V2G to optimize residential energy consumption with electrical vehicle (dis)charging. , 2011, , .		58
102	Automatic provisioning of end-to-end QoS into the home. IEEE Transactions on Consumer Electronics, 2011, 57, 1670-1678.	3.6	5
103	Providing resiliency for optical grids by exploiting relocation: A dimensioning study based on ILP. Computer Communications, 2011, 34, 1389-1398.	5.1	18
104	Energy efficiency considerations in integrated IT and optical network resilient infrastructures. , 2011, , .		9
105	Survivable Optical Grid Dimensioning: Anycast Routing with Server and Network Failure Protection. , 2011, , .		20
106	Intelligent distributed multimedia collection: Content aggregation and integration. , 2011, , .		3
107	Transparent resource sharing framework for internet services on handheld devices. Annales Des Telecommunications/Annals of Telecommunications, 2010, 65, 419-432.	2.5	3
108	Power efficiency of thin clients. European Transactions on Telecommunications, 2010, 21, 479-490.	1.2	12

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109	SALSA: QoS-aware load balancing for autonomous service brokering. Journal of Systems and Software, 2010, 83, 446-456.	4.5	19
110	Analysis of an anycast based overlay system for scalable service discovery and execution. Computer Networks, 2010, 54, 97-111.	5.1	7
111	Column Generation for Dimensioning Resilient Optical Grid Networks with Relocation. , 2010, , .		10
112	An analytical model of the service provisioning time within the harmony network service plane. , 2010, , .		1
113	DLNA interworking for virtualized set-top-boxes. , 2010, , .		0
114	Mean Field Calculation for Optical Grid Dimensioning. Journal of Optical Communications and Networking, 2010, 2, 355.	4.8	5
115	Optimizing smart energy control strategies for plug-in hybrid electric vehicle charging. , 2010, , .		231
116	Architectures for smart end-user services in the power grid. , 2010, , .		17
117	On the impact of relocation on network dimensions in resilient optical Grids.. , 2010, , .		10
118	Integrating personal media and Digital TV with QoS guarantees using virtualized set-top boxes: Architecture and performance measurements. , 2010, , .		1
119	Bandwidth reservations in home networks: Performance assessment of UPnP-QoS V3. , 2010, , .		1
120	Energy Efficiency in Thin Client Solutions. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 109-116.	0.3	5
121	Exploiting relocation to reduce network dimensions of resilient optical grids. , 2009, , .		17
122	Trust as Differentiator for Value-Adding Home Service Providers. , 2009, , .		0
123	Framework for Ubiquitous Discovery and Access to Home Services. , 2009, , .		2
124	On dimensioning optical grids and the impact of scheduling. Photonic Network Communications, 2009, 17, 255-265.	2.7	28
125	Performance analysis and dimensioning of multi-granular optical networks. Optical Switching and Networking, 2009, 6, 88-98.	2.0	8
126	Multi-cost job routing and scheduling in Grid networks. Future Generation Computer Systems, 2009, 25, 912-925.	7.5	30

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127	Multi-Granular Optical Cross-Connect: Design, Analysis, and Demonstration. Journal of Optical Communications and Networking, 2009, 1, 69.	4.8	52
128	Dimensioning resilient optical grids. , 2009, , .		0
129	Cost-Effective Burst-Over-Circuit-Switching in a Hybrid Optical Network. , 2009, , .		1
130	Design of a Context Aware Multimedia Management System for Home Environments. , 2009, , .		1
131	Deflection routing in anycast-based OBS Grids. , 2009, , .		2
132	Programmable Multi-Granular Optical Networks: Requirements and Architecture. , 2009, , .		3
133	Worldwide energy needs for ICT: The rise of power-aware networking. , 2008, , .		204
134	Dimensioning of combined OBS/OCS networks. , 2008, , .		4
135	Scalable Impairment-Aware Anycast Routing in Multi-Domain Optical Grid Networks. , 2008, , .		0
136	Dimensioning of multi-granular optical networks. , 2008, , .		0
137	Distributed Service Provisioning Using Stateful Anycast Communications. , 2007, , .		8
138	ASTAS: Architecture for scalable and transparent anycast services. Journal of Communications and Networks, 2007, 9, 457-465.	2.6	10
139	Design and control of optical grid networks. , 2007, , .		15
140	Erlang Reduced Load Model for Optical Burst Switched Grids. , 2007, , .		6
141	Anycast Routing Algorithms for Effective Job Scheduling in Optical Grids. , 2006, , .		11
142	Routing Strategies to Minimize Packet Loss in an Optical Packet Switched Network with Recirculating FDL Buffers. Photonic Network Communications, 2004, 7, 279-300.	2.7	2
143	Analytical MMAP-Based Bounds for Packet Loss in Optical Packet Switching with Recirculating FDL Buffers. Photonic Network Communications, 2004, 8, 149-161.	2.7	1
144	Scheduling Algorithms for a Slotted Packet Switch with either Fixed or Variable Length Packets. Photonic Network Communications, 2004, 8, 163-176.	2.7	18

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145	Benchmarking and Viability Assessment of Optical Packet Switching for Metro Networks. Journal of Lightwave Technology, 2004, 22, 2435-2451.	4.6	36
146	Clos lives on in optical packet switching. , 2004, 42, 114-121.		28
147	Routing in an AWG-Based Optical Packet Switch. Photonic Network Communications, 2003, 5, 69-80.	2.7	20
148	The european ist project david: a viable approach toward optical packet switching. IEEE Journal on Selected Areas in Communications, 2003, 21, 1026-1040.	14.0	177
149	Assessment of Packet Loss for an Optical Packet Router with Recirculating Buffer. IFIP Advances in Information and Communication Technology, 2003, , 247-261.	0.7	8
150	Data-centric optical networks and their survivability. IEEE Journal on Selected Areas in Communications, 2002, 20, 6-20.	14.0	104
151	Intelligent optical networking for multilayer survivability. , 2002, 40, 42-49.		65
152	Influence of GMPLS Recovery Mechanisms on TCP Performance. Photonic Network Communications, 2002, 4, 321-343.	2.7	0
153	MPLS Recovery Mechanisms for IP-over-WDM Networks. Photonic Network Communications, 2001, 3, 23-40.	2.7	15
154	GMPLS extensions for supporting advanced optical networking technologies. , 0, , .		2
155	Upgrade scenarios for OPS networks. , 0, , .		0
156	Dimensioning Resilient Optical Grid/Cloud Networks. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 73-106.	0.5	1